

**10/539093**

**RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/539,093  
Source: PCT  
Date Processed by STIC: 4/11/06

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PCT

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/10/539,093

DATE: 04/11/2006

TIME: 12:33:16

Input Set : E:\2394 Pr.ST25.txt  
 Output Set: N:\CRF4\04112006\J539093.raw

3 <110> APPLICANT: Alcon, Inc.  
 4 Yanni, John M.  
 5 Gamache, Daniel A.  
 6 Miller, Steven T.  
 8 <120> TITLE OF INVENTION: Treatment of Dry Eye in Postmenopausal Women by Restoring  
 9 15-lipoxygenase Activity to Ocular Surface Cells  
 11 <130> FILE REFERENCE: 2394 US  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/539,093  
 C--> 14 <141> CURRENT FILING DATE: 2005-06-15  
 16 <150> PRIOR APPLICATION NUMBER: US 60/435,988  
 17 <151> PRIOR FILING DATE: 2002-12-20  
 19 <160> NUMBER OF SEQ ID NOS: 10  
 21 <170> SOFTWARE: PatentIn version 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 2671  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: homo sapiens  
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 61 ctgccccgcac caggatcccc accacccccc ctttttttgc ctacggatcc cccaaatggcc 1020  
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83	cacgcctctg	tgcacctggg	ccagctggac	tggtactctt	gggtgcctaa	tgcacccctgc	1680
85	acgatgcggc	tgccccggcc	aaccaccaag	gatgcaacgc	tggagacagt	gatggcgaca	1740
87	ctgcccact	tccaccaggc	ttctctccag	atgtccatca	cttggcagct	gggcagacgc	1800
89	cagcccgta	tggtggctgt	gggcccagcat	gaggaggagt	attttcggg	ccctgagcct	1860
91	aaggctgtgc	tgaagaagtt	cagggaggag	ctggctgccc	tggataagga	aatttagatc	1920
93	cggaatgcaa	agctggacat	gccctacgag	tacctgcggc	ccagcgttgt	ggaaaacagt	1980
95	gtggccatct	aagcgtcgcc	accctttggt	tatttcagcc	ccatcaccc	aagccacaag	2040
97	ctgacccctt	cgtggttata	gccctgcctt	cccaagtccc	acccttcc	catgtcccac	2100
99	cctccctaga	ggggcacctt	ttcatggct	ctgcacccag	tgaacacatt	ttactctaga	2160
101	ggcatcacct	gggaccttac	tcctctttcc	ttccttcctc	cttccctatc	ttccttcctc	2220
103	tctctttcc	tctttcttca	ttcagatcta	tatggcaa	atgccaatt	atataaatca	2280
105	tttcaagact	agaatagggg	gatataatac	atattactcc	acaccttta	tgaatcaa	2340
107	atgattttt	tggtgttgtt	aagacagagt	ctcaacttga	cacccaggt	ggagtgcagt	2400
109	gggccatca	ccacggctca	ctgcagcc	agcgtcctgg	gctcaa	atgcccacc	2460
111	tcagcctcct	gagtagctgg	gactacaggc	tcatgccatc	atgcccagct	aatattttt	2520
113	tatttcgtg	gagacggggc	ctcactatgt	tgcctaggct	ggaaatagga	tttgaaccc	2580
115	aaatttagtt	taaaaaat	aaaaagtgt	tttacgtaa	agatggaaa	gaactaggac	2640
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120 <210> SEQ ID NO: 2

121 <211> LENGTH: 661

122 <212> TYPE: PRT

123 <213> ORGANISM: homo sapiens

125 <400> SEQUENCE: 2

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132					20				25					30		
135	Ala	Ala	Leu	Gly	Lys	Arg	Leu	Trp	Pro	Ala	Arg	Gly	Glu	Thr	Glu	Leu
136					35				40					45		
139	Lys	Val	Glu	Val	Pro	Glu	Tyr	Leu	Gly	Pro	Leu	Leu	Phe	Val	Lys	Leu
140					50				55					60		
143	Arg	Lys	Arg	His	Leu	Leu	Lys	Asp	Asp	Ala	Trp	Phe	Cys	Asn	Trp	Ile
144					65				70					75		80
147	Ser	Val	Gln	Gly	Pro	Gly	Ala	Gly	Asp	Glu	Val	Arg	Phe	Pro	Cys	Tyr
148					85				90					95		
151	Arg	Trp	Val	Glu	Gly	Asn	Gly	Val	Leu	Ser	Leu	Pro	Glu	Thr	Gly	
152					100				105					110		
155	Arg	Thr	Val	Gly	Glu	Asp	Pro	Gln	Gly	Leu	Phe	Gln	Lys	His	Arg	Glu
156					115				120					125		
159	Glu	Glu	Leu	Glu	Glu	Arg	Arg	Lys	Leu	Tyr	Arg	Trp	Gly	Asn	Trp	Lys
160					130				135					140		
163	Asp	Gly	Leu	Ile	Leu	Asn	Met	Ala	Gly	Ala	Lys	Leu	Tyr	Asp	Leu	Pro
164					145				150					155		160
167	Val	Asp	Glu	Arg	Phe	Leu	Glu	Asp	Lys	Arg	Val	Asp	Phe	Glu	Val	Ser
168					165				165					170		175
171	Leu	Ala	Lys	Gly	Leu	Ala	Asp	Leu	Ala	Ile	Lys	Asp	Ser	Leu	Asn	Val
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175 Leu Thr Cys Trp Lys Asp Leu Asp Asp Phe Asn Arg Ile Phe Trp Cys  
 176 195 200 205  
 179 Gly Gln Ser Lys Leu Ala Glu Arg Val Arg Asp Ser Trp Lys Glu Asp  
 180 210 215 220  
 183 Ala Leu Phe Gly Tyr Gln Phe Leu Asn Gly Ala Asn Pro Val Val Leu  
 184 225 230 235 240  
 187 Arg Arg Ser Ala His Leu Pro Ala Arg Leu Val Phe Pro Pro Gly Met  
 188 245 250 255  
 191 Glu Glu Leu Gln Ala Gln Leu Glu Lys Glu Leu Glu Gly Gly Thr Leu  
 192 260 265 270  
 195 Phe Glu Ala Asp Phe Ser Leu Leu Asp Gly Ile Lys Ala Asn Val Ile  
 196 275 280 285  
 199 Leu Cys Ser Gln Gln His Leu Ala Ala Pro Leu Val Met Leu Lys Leu  
 200 290 295 300  
 203 Gln Pro Asp Gly Lys Leu Leu Pro Met Val Ile Gln Leu Gln Leu Pro  
 204 305 310 315 320  
 207 Arg Thr Gly Ser Pro Pro Pro Pro Leu Phe Leu Pro Thr Asp Pro Pro  
 208 325 330 335  
 211 Met Ala Trp Leu Leu Ala Lys Cys Trp Val Arg Ser Ser Asp Phe Gln  
 212 340 345 350  
 215 Leu His Glu Leu Gln Ser His Leu Leu Arg Gly His Leu Met Ala Glu  
 216 355 360 365  
 219 Val Ile Val Val Ala Thr Met Arg Cys Leu Pro Ser Ile His Pro Ile  
 220 370 375 380  
 223 Phe Lys Leu Ile Ile Pro His Leu Arg Tyr Thr Leu Glu Ile Asn Val  
 224 385 390 395 400  
 227 Arg Ala Arg Thr Gly Leu Val Ser Asp Met Gly Ile Phe Asp Gln Ile  
 228 405 410 415  
 231 Met Ser Thr Gly Gly Gly His Val Gln Leu Leu Lys Gln Ala Gly  
 232 420 425 430  
 235 Ala Phe Leu Thr Tyr Ser Ser Phe Cys Pro Pro Asp Asp Leu Ala Asp  
 236 435 440 445  
 239 Arg Gly Leu Leu Gly Val Lys Ser Ser Phe Tyr Ala Gln Asp Ala Leu  
 240 450 455 460  
 243 Arg Leu Trp Glu Ile Ile Tyr Arg Tyr Val Glu Gly Ile Val Ser Leu  
 244 465 470 475 480  
 247 His Tyr Lys Thr Asp Val Ala Val Lys Asp Asp Pro Glu Leu Gln Thr  
 248 485 490 495  
 251 Trp Cys Arg Glu Ile Thr Glu Ile Gly Leu Gln Gly Ala Gln Asp Arg  
 252 500 505 510  
 255 Gly Phe Pro Val Ser Leu Gln Ala Arg Asp Gln Val Cys His Phe Val  
 256 515 520 525  
 259 Thr Met Cys Ile Phe Thr Cys Thr Gly Gln His Ala Ser Val His Leu  
 260 530 535 540  
 263 Gly Gln Leu Asp Trp Tyr Ser Trp Val Pro Asn Ala Pro Cys Thr Met  
 264 545 550 555 560  
 267 Arg Leu Pro Pro Pro Thr Thr Lys Asp Ala Thr Leu Glu Thr Val Met  
 268 565 570 575  
 271 Ala Thr Leu Pro Asn Phe His Gln Ala Ser Leu Gln Met Ser Ile Thr

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272	580	585	590	
275	Trp Gln Leu Gly Arg Arg Gln Pro Val Met Val Ala Val Gly Gln His			
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279	Glu Glu Glu Tyr Phe Ser Gly Pro Glu Pro Lys Ala Val Leu Lys Lys			
280	610	615	620	
283	Phe Arg Glu Glu Leu Ala Ala Leu Asp Lys Glu Ile Glu Ile Arg Asn			
284	625	630	635	640
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296	<211> LENGTH: 3224			
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298	<213> ORGANISM: homo sapiens			
300	<400> SEQUENCE: 3			
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305	ccacggagag agcccccattag taacctctggaa ccatctgggc aaggagttca gcccggjt	180		
307	tgaagaagac ttcgaggtga cgcttccccca ggacgttaggc actgtgtca tgctgcgagt	240		
309	ccacaaagca ccccccgaag tgcctccccc gcttatgtct ttccgttctg atgcctgggt	300		
311	ctggcgctgg ttcgagctgg agtggctacc tgggctgca ctccacttcc cctgttatca	360		
313	gtggctggaa gggccgggggg agctgggtct gagagaggaa gcagcaaagg tgcctggca	420		
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323	gagtctgagg gagatgagaa ggctgtttaa ctccgcagactcc cagatgtatgt	720		
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363	gtcgtaagc gcagaacctg gggaccaaaag gcccctggc cactatccag atgaacactt	1920		
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371	agaactcttg	accatgcctc	tccaggctaa	gtccccgtat	gcttctcctg	gacaaccaag	2160
373	ccccatctta	cacacacaca	cacacacaca	cacctaataa	aatcgaaaaca	aaaaaaccta	2220
375	aactcccaca	gaaggcaaga	tctcacacag	cagagagcca	tccaaatgtt	tggagaccct	2280
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387	tggaagaaca	tatctgtct	tccagatgac	cagggtagct	cacagccatg	tgtcattcta	2640
389	actccagagg	tctctagtgg	ccatgaagac	tccaggcatt	caggggatat	accagttagac	2700
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410 <210> SEQ ID NO: 4

411 <211> LENGTH: 677

412 <212> TYPE: PRT

413 <213> ORGANISM: homo sapiens

415 <400> SEQUENCE: 4

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430						50			55				60			
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434						65			70				75			80
437	Met	Ser	Phe	Arg	Ser	Asp	Ala	Trp	Phe	Cys	Arg	Trp	Phe	Glu	Leu	Glu
438						85			90				95			
441	Trp	Leu	Pro	Gly	Ala	Ala	Leu	His	Phe	Pro	Cys	Tyr	Gln	Trp	Leu	Glu
442						100			105				110			
445	Gly	Ala	Gly	Glu	Leu	Val	Leu	Arg	Glu	Gly	Ala	Ala	Lys	Val	Ser	Trp
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453	Ser	Arg	Gln	Lys	Met	Tyr	Ser	Trp	Lys	Thr	Tyr	Ile	Glu	Gly	Trp	Pro
454						145			150				155			160
457	Arg	Cys	Leu	Asp	His	Glu	Thr	Val	Lys	Asp	Leu	Asp	Leu	Asn	Ile	Lys
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date